

Use Attainability Analysis

for

WBID 531 Brushy Creek

Submitted by BWR

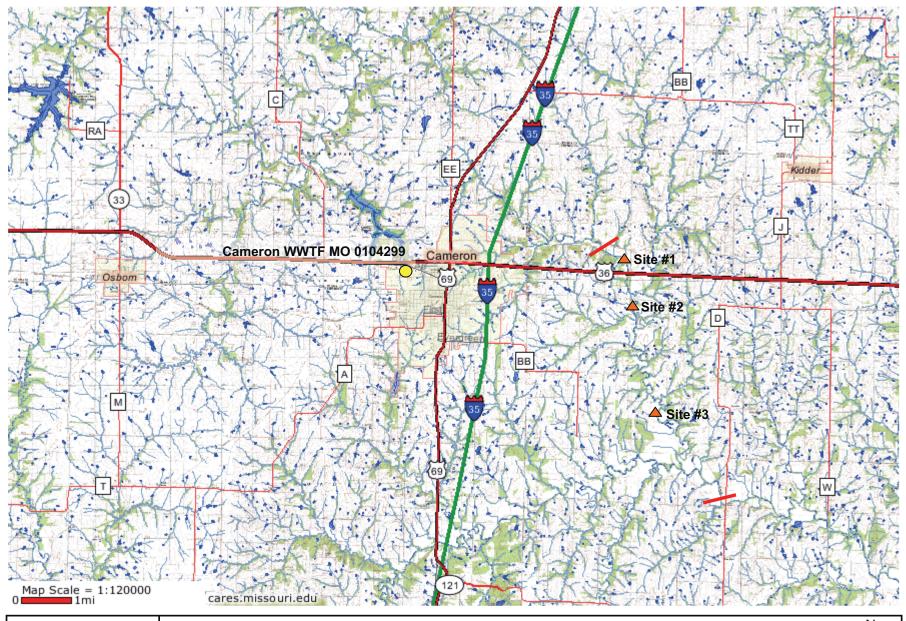
June 1, 2007

Submitted to:
Missouri Department of Natural Resources
Division of Environmental Quality
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

L. Water Body Information (For water body being surve	eyed)
Water Body Name (from USGS 7.5' quad):	rughy Creek
Missouri Water Body Identification (WBID) Numb	er: 534)
8-digit HUC: 10280101	County: Dekallo
Upstream Legal Description (from Table H):	Mouth
Downstream Legal Description(from Table H):	8,57N, 29W
Number of sites evaluated 3	0,0 1,0 2010
List all sites numbers, listed consequently upstream	to downstream
1,2,3	to downstream.
Site Locations Map(s): Attach a map of entire segme any other items that may be of interest. II. Subegmentation (fill this section out only in case	
ESGCATION ECORDINATES (UNIVERSAL) TRANSVERSE MERCATOR PRO	AECHON: IN METERS) 2. 294 4. 245 5.25 7.
Upstream Coordinates:	Downstream Coordinates:
UTM X HORIZONTAL COLLECTION METHOD (indicate the method used to determ	UTM X
Global Positioning System (GPS)	
Static Mode	Topographic Map or DRG
Dynamic Mode (Kinematic)	Aerial Photograph or DOQQ
Precise Positioning Service	Satellite Imagery
Signal Averaging	Interpolation Other
Real Time Differential Processing	
HORIZONIAL ACCURACY ESTIMATE GPS Data Quality	Interpolation Data Quality
FOM ± Meters	Source Map Scale: 1:24,000 1:100,000 Other
EPE	
PDOP	±Feet or ±Meters
III. Discharger Facility Information (list all permitte	d dischargers on the stream)
Discharger Facility Name(s): Caneron	WINTE
Discharger Permit Number(s): MO 0100	· · · · · · · · · · · · · · · · · · ·
IV. UAA Surveyor (please print legibly)	1
Name of Surveyor Ryan M. Lunt	Telephone Number:
Organization/Employer: Stagul Envi	
Position: ENVIRONMENT SIGNE	y
Please verify that you have completed all sections, complete.	, checked all applicable boxes and that everything is
<u> </u>	
Signed: Ryun Me Lunt	Date: 05-25-07
February 2, 2007	Page 22





Brushy Creek WBID #531



Date & Time: 5/25/D7 Site Location Description (e.g., road crossing): Personnel (Data Collectors): PMON LWH Pacific Name: Location Description (e.g., road crossing): Current Weather Conditions: OVERCH Facility Name: Location Description (e.g., road crossing): Weather Conditions for Past 10 days: RANNU Permit Number: MO 0/0/299 Drought Conditions?: No drought [2]: Phase II Phase III	*
Date & Time: 5/25/0 Site Location Description (c.g., road crossing):	
Personnel (Data Collectors): RMAN LWT Current Weather Conditions: OVERAGE Facility Name: Lambern WWFF Weather Conditions for Past 10 days: RANNU Permit Number: MO 0104 290 Drought Conditions?: No drought 12: Phase II : Phase III : Phase IV : Unknown Site Locations: 100374 Sold Position METHOD (Indicate the method used to determine the footboard data) Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Processing FOM	
Current Weather Conditions: Description Past 10 days: Past 10 days: Permit Number: Permit Number:	
Weather Conditions for Past 10 days:	
Drought Conditions?: No drought	
Site GPS Coordinates: UTM X: OLL, 2070 W Y: 30. TUSV W HOREZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data). Global Positioning System (GPS) Static Mode Dynamic Mode (Kinematic) Dynamic Mode (Kinematic) Precise Positioning Service Satellite Imagery Signal Averaging Interpolation Other Real Time Differential Processing GPS Data Quality FOM ### Meters ### Source Map Scale: 1:24,000 1:100,000 Other ### Feet or ± Meters ### Meters ### PDOP	
Site GPS Coordinates: UTM X: O/U, 2070 W Y: 30.7050/N HORZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data) Global Positioning System (GPS) Static Mode Dynamic Mode (Kinematic) Precise Positioning Service Signal Averaging Real Time Differential Processing GPS Data Quality FOM ### CONTROL OF THE CONTROL OF	
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Upstream Photos Downstream Photos Other Photos	
Photo ID# Photo Purpose Photo ID# Photo Purpose Photo ID# Photo Purpose	pose
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Uses Observed*: (Uses actually observed at time of survey.)	MK
Swimming Skin diving Scrap 41-1	
☐ Wind surfing ☐ Kayaking ☐ D .:	ng :
U Hunting	
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Use Interview when conducting interviews.)	Recreational
Surrounding Conditions*: (Mark - Neb 4	
Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)	
☐ City/county parks ☐ Playgrounds ☐ MDC conservation lands ☐ Urban areas ☐ Campgrounds	nds
☐ Boating accesses ☐ State parks ☐ National forests ☐ Nature trails ☐ Stairs/wal	
□ No trespass sign □ Fence □ Steep slopes □ None of the above □ Other:	
Comments:	
Indications of Human Use*: (attach photos)	
Roads Rope swings Rect paths/print Roads	
☐ Camping Sites ☐ Fire pit/ring ☐ NPDES Discharge ☐ Fishing ☐ RV AIV	racks
Comments: NASN — Gasoline tank, thes	

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·				-	RUL	hanrel 1:	50	
Page Two – Data tream Morpholog	n Sheet B for W gy:	BID#_	531:		RIFF	FLE'	0	ý
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			If so, is there an				No	
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POOL								
Downstream Vie	w's Physical Din	1ensions	Is there any wa	nsax =	, (5	%	<u>-</u> -	
	5 2 Lysicus Din	ichsions					□ No	
Select one of the	following channe	el featur	If so, is there a es:	n obvious cur	rent?	□ Yes	□ No	
Channel Feature	Distance from ac		Width (m)	Length (n	1)	Median Depth (m)	Max. Depth (m)
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POOL	- 							
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Color:	☐ Clear	☐ Gree	n ☑ Gray		Milky	□ Othe	er:	····
Bottom Deposit:	☐ Sludge	□ Solid	ls 🗆 Fine :	sediments 🗆	None	□ Othe		
Surface Deposit:	□ Oil	☐ Scum	ı 🗆 Foam		None	☐ Othe		
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omments: Please	attach any addi	tional co	omments () to the	is form.				
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nprenensive undersi	anding of water cor	iditions.	Consequently, this	information is	not inte	inded to directly	influence	ce a
cision on the recreat	ion use analysis but	may poir	nt to conditions tha	t need further a	malysis	or that effect and	ther us	e.
ease verify that yo	ou have complete	d all sec	tions, checked a	ll annlicable	hoves	and that every	thine i	is complete
				wppiiousie	DOXES	and that every	uning i	s complete.
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rveyor s Signature	- roggon	1110		Date of	Survey	:_ <i>ガフェ 2-</i> 2	-0	
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Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

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7				100	Por
9				n	
10		•			

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Ayan Me Lunt	Date: <i>O</i> _	5-25-07	
Organization: 5872	Position:	Everhoumen	1
February 5, 2007	_	Scientist	Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from	Depth	Sife #Rank		
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10		.3			

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Ayan Me Lund	<u>-</u>	
Organization: SETIE February 5, 2007	Position: Environmental Substant Page 2	

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from	Depth	. Sik #		
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If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Ryden M. Kent	Date:
Organization: 5772	Position:
February 5, 2007	Environmental Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	WBID #	Depth	Sife #Rank	<u> </u>	
0100 m /	Stream edge		Rank	Assigned Rank	Sorted depth
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10	d			+	

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Byan Me Lun	Date: 05-25.07
Organization: SETZ	Position: Environments
February 5, 2007	Scientist Page 25

WBID#_	53	(
Site#	2	

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization (must be completed for each site)

				de complete						
Date & Time:	5/25/	7					Site Location Description (e.g., road crossing):			
Personnel (Data		Ryanu	n-	erc	ssing:	→ DIC	310 rd .			
Current Weather	r Condition	MUNICON	el Stratege	Facility	Name:	TYAK		70 m downstream		
Weather Condit	Weather Conditions for Past 10 days Rained Rained						me we	294		
					Number:		1104299	·		
Drought Conditions	ions?: No di	rought : Phase	I □; Phase II	: Phase III]; Phase IV]; Unkno	wn 🗆			
LOCATIONS	i Kamaries il					The state of the S				
Site GPS Coor	rdinates: U	TM X: 094.	ルルロつの) \n/	Υ:	20	7/350	9 h /		
HORIZONTAL CO	XLECTION N	ETHOO (Indicate 5	ne method used to	determine the in	caffornal data is:	ر-ر	, 17000	N		
Static Mode	Global	Positioning Syste	m (GPS)				Interpolat	<u>ion</u> ion		
Dynamic Mode (Ki	nematic)				Topographic					
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 	· · · · · · · · · · · · · · · · · · ·			☐ SCUBA diving		☐ Tubii		☐ Water skiing		
	☐ Wind surfing ☐ Kayaking		111	☐ Boating		☐ Wadi	ng			
Hunting Trapping								Rafting		
	de number o	Trapping		Fishing		None	of the above			
	de number o	of individuals rec		Fishing locumentation		None of recreation	of the above			
Describe: (Inclu Use Interview w		of individuals recting interviews.)	reating, photo-c	locumentation	of evidence o	f recreati	onal uses, etc. U	Other: se Data Sheet D- Recreational		
Describe: (Inclu Use Interview w	ondition	of individuals recting interviews.)	reating, photo-c	locumentation	of evidence o	f recreati	onal uses, etc. U	Other: se Data Sheet D- Recreational		
Describe: (Inclu Use Interview w rrounding C usual items of	ondition interest.)	of individuals recting interviews.) s*: (Mark all	reating, photo-o	or impede r	of evidence o	f recreation	onal uses, etc. U	Other: Se Data Sheet D- Recreational of evidence or		
Describe: (Inclu Use Interview w rrounding C usual items of City/county	ondition interest.) parks	of individuals recting interviews.) s*: (Mark all	reating, photo-cothat promote	or impede r	of evidence o	l uses. A	nal uses, etc. U	Other: se Data Sheet D- Recreational		
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* Page Two – Data	Sheet R for	WRID#	531 0	07			
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Upstream View'	s x uysicai Dili					? \square Yes \square No	
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detnt	us in ch	runel					
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Surface Deposit.	□ Oil	☐ Scum	☐ Foam		□Xone	☐ Other:	
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This information is no omprehensive understa	t to be used sole	ly for remov	al of a recreational	use desim	ation but	4h	
ecision on the recreation	on use analysis b	ut may poin	t to conditions that:	need furth	er analysis	or that effect another u	ise.
lease verify that yo	a nave comple	icu an sec	поих, спескей ап	applical	ole boxes a	and that everything	is complete.
	· D	_	ر ر				
urveyor's Signature:	Tryp	nMu	hund	Date	of Survey	AS-25-	127
	calm			<u> </u>		11 -1	<u> </u>
Organization:	SOTE			Position	: En	475-25-	<u>~ </u>
urveyor's Signature:	Kya	nMu	Lund	Date	of Survey.	AS-25-	127
urveyor's Signature:	Kya	n M.	Lund	Date	of Survey.	195-25	127

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67	giant			17 8.0	oom
9				18 93	17
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d(1)	wetted width	, , 1		22 23 Channel #	
2	4_m	i i			eatre:
3			 	75	N
4	measurements	. 2_		26 Dissolved	000
5	14 m	.2		- Dissolvea	ryger
6	apart-	.2		8.2-	
7	—————— <u> </u>	. 2		1. 91	Par
8		. 2 *		n	
10					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my k datasheet is true and accurate.	nowledge, that all information reported on this UAA
Signed: Kyan Me Lunt	Date:
Organization: STT	Position: Environments
February 5, 2007	Seventist Page 25

Page 25

	WBID#	= 531	Sik #_	2	
	Distance from	Depth	Rank	Assigned Rank	0.433
10	Stream edge			Assigned Kank	Sorted depth
nsect D ₁	welfed width			1 Ch /+	<u> </u>
2	- 10 m	(1 Channeltea 2 Cur	rure:
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4	measurements	12		4 Dissolved O	2
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6	apant	.2		6 8.3	
		12		7 80	ppa
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		1		9	
[0	} <u> </u>	`		10	
	wall to till			11	
red E 1	wetted width			12 Channel	Kohuc :
3		, 1		13	
4		< 1		14	
5	me asurements	(1)		15 Dissolved	Oxygen:
_	ayart	.2_		16	W
67		,2		17 812	ppm
9	<u> </u>	2		18 89	7
9		2-		19	<u> </u>
10		,		20	
				22	
ved F1	weffed width	, ,3		23 Channel F	entre:
				24	anuse:
3		. 3		25	
9	measurements	.3		26 Dissolved	Okuson
6					J
7	apart	2			pan-
7 8		-12		78	16%
8 9				n	
lo					
- •	<u> </u>	<u> </u>			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Ryan Me Jant	Date:
Organization: 337	Position: Environmental
February 5, 2007	Gerontigt Page 25

	Distance from	Depth	Rank	Assigned Rank	Sorted depth
nsect61	Stream edge				porten nebiti
	wethed width	,2_		1 Channelt	2-6-15-
2	-5-m			2 RIA	and s
3 4		<.		2	
-	measurements 15 m	< 1		4 Dissolved	2
5				5	oxygen
	apart			6 8,	
7		.2		7	ppa
8		.2		8	
				9	
lo		. 2		10	
. /1-				11	
ed H 1	wetted width	2_		12 Channel	Feature:
7		. 3		13 RIV	1 WINTE
3 4		. 3		14	
5	Me asurcinen to	3		15 Dissolve	A Drivers
· ·	-12 m	<u>``</u>		16	d Oxygen:
67	ayart			17	nom
9			 -	18	ppm
9				19	
10				20	
·				21	
ارست كهرها	Welled width			22	
ed II	wetted width			23 Channel	Featre:
		• 1		$\frac{1}{24}$ Run	
3 4	mensurements			25	
5	25 m	i		26 Dissolved	Oxygen
6	apart	.2			
7[1		- 3.2	pm
6 7 8 9		•			167
				<u> </u>	
/a		• (- 	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge datasheet is true and accurate.	e, that all information reported on this UAA
Signed: According to	· · ·

Signed: Ryan M. Lun	Date: <u>85-25-97</u>
Organization: 9675 February 5, 2007	Position: Enghowmental
	3ciontest Page 25

	WBID #	Depth	Sife #Rank		
L	Stream edge	Верш	Kank	Assigned Rank	Sorted depth
insect I	THE THE POPULATION	.		1 Change It	
2	Q.5m			1 Channeltes	TUIE:
4		.7		2	
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£ 10		<,		10	
mrad 1/ /	walledicall			11	
nsed K-1 2	wethed width	: 11		12 Channel	Kature:
3		.21		13 RW)
4	measurements	.2			120
5		13		16	Oxygen:
67	ayart	,3		17 7.6	oom
9				18 93	17.
9		.2		19 20	
10		.2		21	
/	11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1			22	
nved 1 2	wetted width			23 Channel	eatre:
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5				20 Dissolved	Okygen
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7 8 9					16%
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10	,	~			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Kym M. Junt	Date:
Organization: SETZ	Position: Environmental
February 5, 2007	Silon Hart Page 25

WBID#	531
Site#	0-3

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization (must be completed for each site)

	Date & Time: 5 25 0				Site Location Description (e.g., road crossing): ~ 170 m							
	Personnel (Data	(Collectors	: Pu	jan i	urt		Cr	Crossing @ NW Barnick				
	Current Weather		s: SW	nu			Facility Name: Campron WUTF					
	Weather Condit	ions for Pas	t 10 days:	SUN/	rain		Permit N		MI	0010429	01	
	Drought Condit	ions?: No d	_			I □: Pl	hase III 🗆	: Phase IV Γ	7. Hinko			
Sit	LE LUCALIUNS	52										
Ì	Site GPS Coo	rdinates: U	TM X:	DAY.	15501	Ola/		V. CO		MARKET SERVICE		
	HORIZONTAL CI	OLLECTION 1	METHOD (dicate the r	nethod i and	V. V I to detai	mine the loc	Y: 39,	<u> </u>	OV IV		
	Static Mode	Global	Positionin	g System ((GPS)					Interpolar	tion	
]	Dynamic Mode (Ki							Topographic Aerial Photo				
	Precise Positioning	g Service						Sateliite Ima		,000		
}	Signal Averaging	-						Interpolation				
9	Real Time Differer							-	· .			
ŀ	Z 7.6 V. H.	EL PROPERTY.	-									
-			GPS Dat	Quality	· .	·				Interpolation Da		
-	FOM	±		Meters				S	- 14 0			
	EPE	<u> </u> ±	15_F	et or ±_	M	eters		Source Map Scale: 1:24,000 1:100,000 Other				
Į	PDOP			<u> </u>					±_	Feet or ±	Meters	
Ph	otos:							L				
		pstream Ph	otos			Do	wnstream	wnstream Photos			Other Photos	
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	23	J-K T			24		B-1	+ Trav	Sect	25-28	Wastream, 12.	
Us	es Observed	i*: (Uses	actually	observe	ed at tim	ie of s	urvev.)	`			Monngroulin, L	
			☐ Skir				JBA diving	g	☐ Tubi	ng	☐ Water skiing	
-	☐ Wind surfing	<u> </u>	☐ Kay	aking	☐ Boating		ting	☐ Wading			☐ Rafting	
	☐ Hunting		☐ Traq	ping	☐ Fishing							
	Describe: (Inclu Use Interview w	de number o hen conduc	of individa	ials recreat	ting, photo	o-docun	nentation o	f evidence o	f recreati	ional uses, etc. U	Se Data Sheet D- Recreational	
			•									
Տա սոս	rrounding C sual items of i	ondition interest.)	s*: (Ma	rk all tha	t promo	te or i	mpede re	creational	uses. A	Attach photos	of evidence or	
	☐ City/county	parks	☐ Play	grounds	□мр	C cons	ervation la	nds	□ Urbo			
	☐ Boating acce	esses		parks					☐ Urban areas		Campgrounds	
	☐ No trespass sign ☐ Fence		☐ National forests ☐ Steep slopes			☐ Nature trails ☐ None of the above		☐ Stairs/walkway				
	Comments:			· · · · · · · · · · · · · · · · · · ·		op orept			None	of the above	Other:	
] hal	ications of H	duman I	loo*: (-:	4417								
Ī	/			itaen ph	otos)	. 1						
-	Roads	Rope	wings	☐ Foot	paths/prin	ıts [□ Dock/p	latform	☐ Liv	estock Watering	□ RV / ATV Tracks	
-	Comments:	:s		☐ Fire p	oit/ring		NPDES	Discharge	☐ Fis	shing Tackle	☐ Other:	
L								·				

					_	10 C	hanrel From J: 100 = LE: 0 oct: 0	eature
					3	RUA	J: 100	
*]	Page Two _ Date	Sheet R for V	VDID 4 (=21 c	ما ما	RIF	=(E: 0	
St	ream Morpholo	av:	4 DID #_]	27 (:		Par	37.0	
	Unstream View	s Physical Dime	malawa. Y			700		
	Upstream View's	s Fuysicai Dime	ensions: 1	s there any water	present a	t this view	? □ Yes □ No	
	6.1			If so, is there an	obvious c	urrent?	☐ Yes ☐ No	
	Select one of the Channel Feature	Distance from a	nel featur					
	RIFFLE	Distance from a	iccess (m)	Width (m)	Leng	th (m)	Median Depth (m)	Max. Depth (m)
	RUN				<u> </u>			
	POOL	<u> </u>						
					<u>. </u>			
	Downstream Vie	w's Physical Di	mensions	· Is there any wo	ton magazi		0 = 11 = = 11	
		b I Lysical Di	псизица				ew? □ Yes □ No)
	Select one of the	following show-	1 <i>E</i> 4	If so, is there a	n obvious	current?	□ Yes □ N	o
	Select one of the Channel Feature	Distance from a	iccess (m)	es: Width (m)	Ī au a	ate described		
	RIFFLE		TOOBS (III)	Widii (III)	reng	th (m)	Median Depth (m)	Max. Depth (m)
	RUN							
	POOL							
Su	bstrate*: (These	values should add	l up to 100	%.)			<u> </u>	
	% Cobbl		ravel	% Sand		% Silt	% Mud/Clay	% Bedro
		10	Oalson	5 = 19 m	A.00.73	7 0 2 120	70 Mild City	70 Deur
				 				
W	ater Characteris	stics*: (Mark all	that apply.)				
	Odor:	☐ Sewage	☐ Musk	y 🗆 Chem	ical	☑ None	☐ Other:	
	Color:	Clear	☐ Green	<u> </u>				
	Bottom Deposit:	☐ Sludge				☐ Milky	Other:	
	Surface Deposit:	<u> </u>			ediments	□ None	Other:	
	Surface Deposit.	□ OiI	☐ Scum	☐ Foam		[] None	☐ Other:	
C	mmente Diese	attach amy add	:4: 1					
C	mments: Please	anach any add	ilional co	mments () to th	is form.			
*T	his information is no	t to be used solely	for remov	al of a recreational	use design	nation but re	ther is to provide a mo	
COL	mbremensive mineran	andhis of Matel Co	maitions (Consequently this	informatic	m ia mat inta		
aec	cision on the recreate	on use analysis bu	t may poin	t to conditions that	need furth	er analysis	or that effect another u	se.
Ple	ease verify that vo	u have complet	ed all seco	tions chacked of	l anniiss'	Lt. L	and that everything	
		compice	cu an sec	nons, checked a	і аррпса	Die Doxes	and that everything	is complete.
		\mathcal{A}	-00	1 -			7	٠
Su	rveyor's Signature:	Tryan	1/2 /	Kunt	Date	of Survey:	05-25-0	7
_	rveyor's Signature:		•				05-25-0	
Or	ganization: 5	611			Position	n: <u>E</u> w	Vironment	\ \
							مراد المراد ا	_ -

	WBID #	Depth	Sik#_		
- 1,	Stream edge	Depm	Rank	Assigned Rank	Sorted depth
ansect A	wetled width	,		1 Ch /+-	
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		. L		8 9	
To		12		10	
· · ·	11/1/11/11			11	
rved B1	wethed width			12 Channel	Cohere :
3			- 	13 Ru	
\mathcal{A}	measurements	V. 1		14	
5	O n	2.1		15 Dissolved	Oxygen:
67	ayart			16	Je
		.2_		17 Ct. (ppm
9		.2		19	
9		3		20	
10		.2		21	
nra (C. /	10/0/16/11/1/			22	
ned [Wetted width			23 Channel F	eatire:
3				24 /1/	
Ý	measurements	.1_	_	25	
Ś	145 m	. 2-		26 Dissolved	Okygen.
6	apart	. 2		 	
7		.2-		. 9,1 . JDI	par
8 9		,[n DI	-6-
					
10					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Ryan M. Thur	Date: <u>85- 28-87</u>
Organization: SEFI	Position: Environmental
February 5, 2007	Schowt St Page 25

	Distance from	Depth	S/k #		10
10	Stream edge			Assigned Rank	Sorted depth
sect D	wetled width	, 1		1 Ch. 1=	
2	m			1 Channel Fee	mire:
4		1		3	
4	- MERIUTETTENIS			4 Dissolved C	2
5	- · 9 n	.2		5	xygen
U	apart	.2		6 9,4	
	1.	.2		7 107	ppn
8	,	.2		8	-/-
-				9	
[t				10	
	10/2// 1 1//			11	
a E	wethed width	1		12 Channel	Feature:
3				-113 20	M
4	,	, 2		14	
5	measurements	1		15 Dissolve	Oxygen:
	ayart	- 1		16	J.J
4		1		11	ppm
9		12		18 102	Te
9		.2		19	
10				20	
				22	
dF1	wetted width				12.622
		,		23 Channel,	cantre:
3				35	<u> </u>
9	measurements	.2		26 Deschard	Okygen
567	10 m	.2-			Jigger .
9	apart			9,5	
/ \$.1		. 103	- Por
8	·	.2		n	
10					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Kyan M- Lur	Date:
Organization: SBTZ	Position: Environmental
February 5, 2007	2 Norting Page 74

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from	Depth	Sik #		
- 10	Stream edge			Assigned Rank	Sorted depth
1sect61	well-dwidth	12_		1 04 4-	
2	10 m	12		1 Channelte	ature:
5		. [$\frac{1}{3}$	
4	measurements			4 Dissolved	
5.6	1.0 n	< 1		4 Disselved	Xygen
	apart	∠.'1		6 9,3	
\ 7		. 2.1		7 103	ppa
8		1 11		8	/6
•		.2		9	
lo		.3		10	
(1				111	
ed H 1	wetled width				Feature:
2		. 2		13	in the
4		· 2_		14	
7 5	measurements			15 Dissolve	1 Oxygen:
, ,		- 3		16	Jugere.
67	ajjart			17 9.2	1
9		- 3		18 102	ppm
9			- 	19	
10		10		20	
				21	
ed I	wetted width	2		22	
-2	4-m	13		23 Channel	teakre:
3		.2		24 9-2	Run
9	measurements	12			, ,
5	- un	1		20 Dissolved	Oxygen :
6	apart	,]		9.2	
7				103	- Par
8				n	
/				-	
<i>1</i> q					

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: - Ryon M. Lut	Date:
Organization: SETZ	Position: Enwhonnested
February 5, 2007	Scientiat Page 25

	Distance from	2 53 Depth	Sife #		
	Stream edge	Jopan	Kalik	Assigned Rank	Sorted depth
ansect Δ_{\parallel}	welled width			1 Ch /=	
2	- 7 m	. 2		1 Channeltes 2 Dyr	rure:
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				4 Dissolved O	244.004
. <i>b</i>	- <u> </u>	-1		5	yger
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· - 8		,		7 105	1200
9				8	
(i) (i) lo				9	
				10	
nsed K_1	wetled width			12 Channel	_
2				13 Run	Carure:
3 4	,			14	
5	me asurements	12		15 Dissolved	Oxygen:
	ayart	2		16	JU
67		12-		11/ -1.6	ppm
9		-2		18 107	17
9		.3		20	
10		.2_		21	
inved 1	wetted width			22	
insed 1 2	- m			23 Channel F	entre:
3				24 25	
4	measurements			26 Disselved	7-
56	m			26 Dissolved	Skygen.
7	apart				
7 8 9		<u> </u>			Pan
9		· · · · · · · · · · · · · · · · · · ·		n	
10		<u> </u>			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my datasheet is true and accurate.	knowledge, th	nat all information reported on tl	is UAA
Signed: Kyan M. Kun	Nata	15-25	

Organization: Date: Date



Transect A (Site #1) of Brushy Creek.



Transect A (Site #1) of Brushy Creek.



Transect A (Site #1) of Brushy Creek.



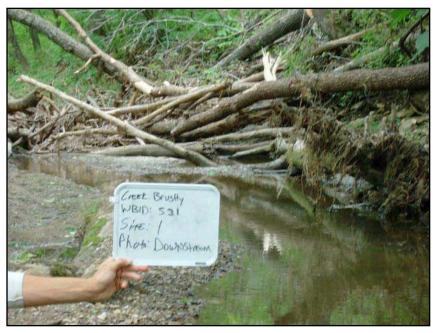
Transect A (Site #1) of Brushy Creek.



Transect A (Site #1) of Brushy Creek.



Downstream (Site #1) of Brushy Creek.



Downstream (Site #1) of Brushy Creek.



Upstream (Site #1) of Brushy Creek.



Upstream (Site #2) of Brushy Creek.



Transect A (Site #2) of Brushy Creek.



Downstream (Site #2) of Brushy Creek.



Transect A (Site #2) of Brushy Creek.



Transect A (Site #2) of Brushy Creek.



Upstream (Site #3) of Brushy Creek.



Transect A (Site #2) of Brushy Creek.



Downstream (Site #3) of Brushy Creek.



Transect A (Site #3) of Brushy Creek.



Transect A (Site #3) of Brushy Creek.



Transect A (Site #3) of Brushy Creek.



Transect A (Site #3) of Brushy Creek.

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview
Stream Name Brustly Crofk (WBID # 531)
I. Introduction
Date & Time (include AM or PM): 05-08-07 /4:00
Interviewed: In person By phone By mail (NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)
Interviewee selected because (e.g., house next to stream; standing by stream, etc.) The those is Next to the Stream; has been living here bitore 157
Interviewer introduction to Interviewee: "My name is, I work for(name of your employer), and I am collecting information on how people use(name of the stream)" ASK:
1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.) Yes No If yes, list contact information for the interviewee below: Legal name: Whitaker's Current mailing address: logs 7 NW Oregon St Cameron, Mo Daytime phone number: () E-mail address (optional):
2.a.) Do you live in this area? Yes \[\sum \text{No} \] No If yes, how many years?
2.b.) If you don't live nearby, are you still familiar with this stream? Yes No If yes, how many years? If no, thank the individual for taking the time to talk to you and conclude the interview.
3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No If yes, proceed to "II. Personal Use?". If no, proceed to Section V.
 II. Personal Use? 1.) Have you or your family personally used the stream for recreation since November 28, 1975? Yes No If yes, proceed to #3. If no, proceed to #2.
2.a.) List reasons stream not used. No Ever 1950 NO ONE USES the Stream; other area's that he are available for recreational purposes
2.b.) Proceed to "III. Witnessed Use?".
3.) How do you use the stream?

Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:
4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
4.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol).
Secondary Contact Recreation
Fishing Wading Boating Trapping Other: List:
List.
If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:
4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
4.d.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol).
III. Witnessed Use?
1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes. Yes. If yes, proceed to #2.
If no, proceed to, "IV. Anecdotal Use?".
2.) What kinds of uses have you witnessed?
Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions: 2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?

	 					
						·

] [7]		dary Contact I			
Fishing	Wading	Boating	Trapping	Other: List:		
If Interviewee	witnessed SCR	use since Nov. 2	28, 1975, ask the fo	ollowing questions:		
2.c.) When (e.g., year(s)?; seaso	n?; only after a rain?)	and how often (times/year)?		
	_	-				
2.d.) Wher he protoco	e, exactly? D	escribe specif	ic location and	mark on the map (Seemap requirer	nents
				<u></u>		 .
N/ A						
	dotal Use?	it anvone usin	o this stream si	nce Nov. 28, 1075	for reamostics	
1.) Have you or done you If yo If no	ou heard abourself, but just es, proceed to o, thank the in	t heard about i #2.	t? Yes [2] Aking the time t	nce Nov. 28, 1975 No o talk to you and co		
1.) Have you or done you If yo If no 2.) What k	ou heard abourself, but just es, proceed to o, thank the in	t heard about in #2. "Handividual for the exercise you heard and the exercise the	t? Yes [2] Aking the time t	d No o talk to you and co		
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Secondary Contact Recreation
Fishing Wading Boating Trapping Other: List:
If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:
2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
2.d.) Where, exactly? Describe specific location and mark on the (See map requirements in the protocol).
V. Others to Contact?
Can you recommend someone else we could contact that knows the stream? Yes No If yes, that person's contact info (name, address, phone, directions?)
If no, thank the individual for taking the time to talk to you and conclude the interview.
VI. Additional Comments
1) From the Interviewee
1.) From the Interviewee:
2.) From the Interviewer:
VII. Information on Interviewer
Has interviewer been trained by Missouri DNR to conduct UAA Interviews? Yes No If yes, how (check all that apply): Workshop? (if so, enter date):
On-line training seminar? Followed Interview Instruction Sheets?
Other
Interviewer Information:
Signature:
Timiled Italie.
Employer (where applicable):E-mail:
D-III8II: